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Practitioner's Docket No. 46910-DIV-2 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231



NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Y. Hayashi, et al.

WARNING:

37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

WARNING:

COMPOSITION CONTAINING a-FODRIN OR a-FODRIN FRAGMENT

PROTEIN

1. Type of Application

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is mandatory.)
(Express Mail certification is optional.)

I hereby certify tha	at this correspondenc	e and th	e documents referred to as attached therein are being deposited with the United
States Postal Servi	ice on this date	2/8	/00, in an envelope as "Express Mail Post Office to Addressee," mailing
Label Number	EL054597975US	7 1	, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.
-			
			(Invenione Serrecchia

Annemarie Serrecchia
Signature of person mailing paper

(type or print name of person mailing paper)

Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to

obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label

placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Application Transmittal—page 1 of 12)

This new application is for a(n)

(check one applicable item below)

	[X] [] []	Original (nonprovisional) Design Plant
WARNI		Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. (4), unless the International Application is being filed as a divisional, continuation or continuation-in-part tion.
WARNI	NG:	Do not use this transmittal for the filing of a provisional application.
NOTE:	TRANS	of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION MITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT CATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	[X] [] []	Divisional. Continuation. Continuation-in-part (C-I-P).
2.	Benef	it of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)
NOTE:	applica nonpro interna at least claimed	provisional application may claim an invention disclosed in one or more prior filed copending nonprovisional tions or copending international applications designating the United States of America. In order for a visional application to claim the benefit of a prior filed copending nonprovisional application or copending tional application designating the United States of America, each prior application must name as an inventor one inventor named in the later filed nonprovisional application and disclose the named inventor's invention in at least one claim of the later filed nonprovisional application in the manner provided by the first applied of 35 U.S.C. 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
- (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that

the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNING: When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).

[X] The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

A.	Required for Filing Date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153
	(Design) Application

- Pages of Specification plus cover sheet
- 3 Pages of Claims
- 4 Sheets of Drawing

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. 1.84, see Notice of March 9, 1988. (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page. . ." 37 C.F.R. § 1.84(c)).

(complete the following, if applicable)

	(compress majoritation)
[]	The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. § 1.84(b).
[X] []	Formal Informal
В.	Other Papers Enclosed

	4.	Additional Papers Enclosed					
		[] Amendment to claims					
		[] Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.) [] Add the claims shown on the attached amendment. (Claims added have been					
		numbered consecutively following the highest numbered original claims.)					
:==:		 [X] Preliminary Amendment [X] Information Disclosure Statement (37 C.F.R. § 1.98) [X] Form PTO-1449 (PTO/SB/08A and 08B) [] Citations [] Declaration of Biological Deposit [] Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence. [] Authorization of Attorney(s) to Accept and Follow Instructions from Representative 					
#1.12 H		[] Special Comments [X] Other - Transfer of Sequence Listing and Sequence Listing (page 33 of application)					
The first when when the state II	5,	Declaration or Oath (including power of attorney)					
	NOTE:	A newly executed declaration is not required in a continuation or divisional application provided the prior nonprovisional application contained a declaration as required, the application being filed is by all or fewer than all the inventors named in the prior application, there is no new matter in the application being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not inventors of the application being filed. If the declaration in the prior application was filed under § 1.47 then a copy of that declaration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning person under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must be filed. See 37 C.F.R. § 1.63(d)(1)-(3).					
	NOTE:	A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and the residence, post office address and country of citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)-(4).					
		[X] Enclosed					
		Executed by					
		(check all applicable boxes)					
		 [X] inventor(s). [] legal representative of inventor(s). 37 C.F.R. § 1.42 or 1.43. [] joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached. 					

			[]	This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.
	[]	Not E	nclosed.	
NOTE:	applicat continue	tion conta ation or c	ins subject ontinuation	tion in the U.S. of an International Application, or where the completion of the U.S. matter in addition to the International Application, the application may be treated as a n-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION ENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
		[]	4 •	ation is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of above named inventor(s).
	(The	e declar	ation or	oath, along with the surcharge required by 37 C.F.R. § 1.16(e), can be filed subsequently).
			[]	Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))
6.	Invent	torship	Stateme	nt
WARNI		-		ntors are each not the inventors of all the claims an explanation, including the ownership time the last claimed invention was made, should be submitted.
The in	ventorsh	nip for a	ll the cla	ims in this application are:
	[X]	The sa	ime.	
				or
	[]		t claimed is subr	An explanation, including the ownership of the various claims at the time d invention was made, nitted. submitted.
7.	Langu	ıage		
NOTE:	translati	ion of the is required	non-Engli	rigned oath or declaration may be filed in a language other than English. An English sh language application and the processing fee of \$130.00 required by 37 C.F.R. § d with the application, or within such time as may be set by the Office. 37 C.F.R. §
	[X]	Englis Non-E		
		[]		tached translation includes a statement that the translation is accurate. 37 § 1.52(d).

8.	Assignn	nent				
	[]	An assignment of the invention to				
		[]		separate [] "COVER SHEET FOI DMPANYING NEW PATENT AP lso attached.	•	
NOTE:	•	_		new application, send two separate letters 00 (1114 O.G. 77-78).	s-one for the application and on	
WARNI		•		MENT UNDER 37 C.F.R. § 3.73(b)" must ptice of April 30, 1993, 1150 O.G. 62-64.	be filed when a continuation-in-	
9.	Certifie	d Cop	р у			
	Certified	l copy	v(ies) of applicati	on(s)		
	Count	ry		Appln. no.	Filed	
	Count	iry		Appln. no.	Filed	
	Count	ry		Appln. no.	Filed	
from w	hich prior	rity is	claimed			
		•	e) attached. ollow.			
NOTE:	The foreign		•	asis for the claim for priority must be refe	rred to in the oath or declaration	
NOTE:	application entitled to	n or In priorit	ternational Applicati ty from a prior foreig	or which the application being filed directly fon from which this application claims ben in application, then complete item 18 on th CRE BENEFIT OF PRIOR U.S. APPLICAT	nefit under 35 U.S.C. 120 is itselj ne ADDED PAGES FOR NEW	
10.	Fee Calo	culati	ion (37 C.F.R. § 1	1.16)		
	A. [[X]	Regular applic	ation		

			CLAIM	S AS FILED		
Cla	aims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 C.F. §1.16(a) \$690.00
Total C (37 C.F §1.16(c	r.R.	6	- 20 =	x	\$ 18.00	
Indeper (37 C.F 1.16(b)	•	laims 1	- 3 =	х	\$ 78.00	
_	•			+	\$260.00	
NOTE:			ng multiple-depens is not being pa	ndencies is enclose id at this time. by must be paid or the o	claims cancelle	ed by amendment, prior to the
	expiration § 1.16(d)			atent and Trademark Of		ice of fee deficiency. 37 C.F.R. \$ 690.00
	В.	[] Design app (\$310.00—37 C.F.	olication R. § 1.16(f))	iling Fee Calculation		\$
	C.	[] Plant apple	cation R. § 1.16(g))			

11. Small Entity Statement(s)

[] Statement(s) that this is a filing by a small entity under 37 C.F.R. §§ 1.9 and 1.27 is (are) attached.

WARNING: "Status as a small entity must be specifically established in each application or patent in which the status is available and desired. Status as a small entity in one application or patent does not affect any other application or patent,

12.

13.

including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under § 1.53 as a continuation, division, or continuation-in-part (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) of a prior application, or a reissue application may rely on a statement filed in the prior application or in the patent if the nonprovisional application or the reissue application includes a reference to the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent and status as a small entity is still proper and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for purposes of this section." 37 C.F.R. § 1.28(a)(2).

(complete the following, if applicable) [] Status as a small entity was claimed in prior application from which benefit is being _____, filed on _____ claimed for this application under: 35 U.S.C. § 119(e), 120, 121, 365(c), and which status as a small entity is still proper and desired. [] A copy of the statement in the prior application is included. Filing Fee Calculation (50% of A, B or C above) NOTE: Any excess of the full fee paid will be refunded if a small entity status is established refund request are filed within 2 months of the date of timely payment of a full fee. The two-month period is not extendable under § 1.136. 37 C.F.R. § 1.28(a). Request for International-Type Search (37 C.F.R. § 1.104(d)) (complete, if applicable) [] Please prepare an international-type search report for this application at the time when national examination on the merits takes place. Fee Payment Being Made at This Time [] Not Enclosed [] No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § 1.16(e) can be paid subsequently.) [X]**Enclosed** Filing fee 690.00 [X]

(Application Transmittal—page 8 of 12)

[] Recording assignment (\$40.00, \$7 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.") \$ [] Petition fee for filing by other than all the inventor or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; \$7 C.F.R. §\$ 1.47 and 1.17(i)) \$ [] For processing an application with a specification in a non-English language (\$130.00; \$7 C.F.R. §\$ 1.52(d) and 1.17(k)) \$ [] Processing and retention fee (\$130.00; \$7 C.F.R. §\$ 1.53(d) and 1.21(l)) \$ [] Fee for international-type search report (\$40.00; \$7 C.F.R. § 1.21(e)) \$ [] Fee for international-type search report (\$40.00; \$7 C.F.R. § 1.53(d) and this, as well as the changes to \$7 C.F.R. § 1.33 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid processing and retention fee of \$1.21(m) must be paid, within 1 year from notification under § \$31(). Total Fees Enclosed \$ 690.00 [] Charge Account No in the amount of \$ A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid 37 C.F.R. § 1.22(b). **Total Fees Manner of Charge Additional Fees **WARNING: If no fees are to be paid on filing, the following items should not be completed. **WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extr						
(\$40.00; \$7 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.") [] Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; \$7 C.F.R. §\$ 1.47 and 1.17(i)) [] For processing an application with a specification in a non-English language (\$130.00; \$7 C.F.R. §\$ 1.52(d) and 1.17(k)) [] Processing and retention fee (\$130.00; \$7 C.F.R. §\$ 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; \$7 C.F.R. § 1.21(e)) [] Fee for international-type search report (\$40.00; \$7 C.F.R. § 1.21(e)) [] Some sublishes a fee for processing and retaining any application that is abandoned for failing to e the application pursuant to \$7 C.F.R. § 1.33 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid processing and retention fee of § 1.21(l) must be paid, within 1 year from notification under § \$3(l). Total Fees Enclosed [X] Check in the amount of \$			[]	Recording assignment		
(See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.") [] Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i)) [] For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k)) [] Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; 37 C.F.R. §§ 1.21(e)) [] Fee for international-type search report (\$40.00; 37 C.F.R. §§ 1.53(d) and this, as well as the changes to 37 C.F.R. § 1.53 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, which is basic filing fee must be paid processing and retention fee of § 1.21(f) must be paid, within 1 year from notification under § 33(f). Total Fees Enclosed \$_690.00 [] Charge Account No						
APPLICATION.") [] Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i)) [] For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k)) [] Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; 37 C.F.R. §§ 1.21(e)) [] Fee for international-type search report (\$40.00; 37 C.F.R. § 1.32(f) and this, as well as the changes to 37 C.F.R. § 1.33 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid processing and retention fee of § 1.21(f) must be paid, within 1 year from notification under § 33(f). Total Fees Enclosed [X] Check in the amount of \$ 690.00 . [] Charge Account No in the amount of \$ A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). 15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed.				(See attached "COVER SHEET FOR		
[] Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i)) \$				ASSIGNMENT ACCOMPANYING NEW		
than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i)) \$				APPLICATION.")	\$	
than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i)) \$						
on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i)) \$			[]	Petition fee for filing by other		
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(\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i)) [] For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k)) [] Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; 37 C.F.R. §§ 1.51(e)) [] Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e)) [] MOTE: 37 C.F.R. § 1.21(l) establishes a fee for processing and retaining any application that is abandoned for failing to a the application pursuant to 37 C.F.R. § 1.36() and this, as well as the changes to 37 C.F.R. § 1.33 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid processing and retention fee of § 1.21(l) must be paid, within 1 year from notification under § 53(f). Total Fees Enclosed \$_690.00 14. Method of Payment of Fees [X] Check in the amount of \$ in the amount of \$ A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). 15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed.				inventor refused to sign or cannot		
[] For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k)) \$						
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specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k)) [] Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e)) [] Fee for processing and retaining any application that is abandoned for failing to a the application pursuant to 37 C.F.R. § 1.53(f) and this, as well as the changes to 37 C.F.R. § 1.33 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid processing and retention fee of § 1.21(f) must be paid, within 1 year from notification under § 53(f). Total Fees Enclosed \$ 690.00 14. Method of Payment of Fees [X] Check in the amount of \$ 690.00 . [] Charge Account No in the amount of \$ A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). 15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed.			[]	For processing an application with a		
(\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k)) [] Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e)) **NOTE: 37 C.F.R. § 1.21(l) establishes a fee for processing and retaining any application that is abandoned for failing to a the application pursuant to 37 C.F.R. § 1.33(f) and this, as well as the changes to 37 C.F.R. § 1.53 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid processing and retention fee of § 1.21(l) must be paid, within 1 year from notification under § 53(f). **Total Fees Enclosed** [X] Check in the amount of \$			LJ			
[] Processing and retention fee (\$130.00; 37 C.F.R. §\$ 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e)) **Substitute of the application pursuant to 37 C.F.R. § 1.33(d) and this, as well as the changes to 37 C.F.R. § 1.33 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, processing and retention fee of § 1.21(l) must be paid, within 1 year from notification under § 53(l). Total Fees Enclosed **Substitute of this transmittal is attached.** **NOTE:** Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). **If no fees are to be paid on filing, the following items should not be completed.**					\$	
(\$130.00; 37 C.F.R. § 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e)) **Substitute of the application pursuant to 37 C.F.R. § 1.21(e)) **NOTE: 37 C.F.R. § 1.21(l) establishes a fee for processing and retaining any application that is abandoned for failing to a the application pursuant to 37 C.F.R. § 1.53(l) and this, as well as the changes to 37 C.F.R. § 1.33 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, processing and retention fee of § 1.21(l) must be paid, within 1 year from notification under § 53(l). **Total Fees Enclosed** [X] Check in the amount of \$ 690.00 [] Charge Account No				(4.2000)	-	
(\$130.00; 37 C.F.R. § 1.53(d) and 1.21(l)) [] Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e)) **Substitute of the application pursuant to 37 C.F.R. § 1.21(e)) **NOTE: 37 C.F.R. § 1.21(l) establishes a fee for processing and retaining any application that is abandoned for failing to a the application pursuant to 37 C.F.R. § 1.53(l) and this, as well as the changes to 37 C.F.R. § 1.33 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, processing and retention fee of § 1.21(l) must be paid, within 1 year from notification under § 53(l). **Total Fees Enclosed** [X] Check in the amount of \$ 690.00 [] Charge Account No				Processing and retention fee		
(\$40.00; 37 C.F.R. § 1.21(e)) \$				(\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$	
(\$40.00; 37 C.F.R. § 1.21(e)) **NOTE: 37 C.F.R. § 1.21(f) establishes a fee for processing and retaining any application that is abandoned for failing to a the application pursuant to 37 C.F.R. § 1.53(f) and this, as well as the changes to 37 C.F.R. § 1.53 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid processing and retention fee of § 1.21(f) must be paid, within 1 year from notification under § 53(f). Total Fees Enclosed **G90.00** 14. Method of Payment of Fees [X] Check in the amount of \$			[]	Fee for international-type search report		
the application pursuant to 37 C.F.R. § 1.53() and this, as well as the changes to 37 C.F.R. § 1.53 and 1.7 indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, processing and retention fee of § 1.21(1) must be paid, within 1 year from notification under § 53(f). Total Fees Enclosed \$_690.00\$ 14. Method of Payment of Fees [X] Check in the amount of \$				(\$40.00; 37 C.F.R. § 1.21(e))	\$	 _
 14. Method of Payment of Fees [X] Check in the amount of \$ 690.00. [] Charge Account No in the amount of \$ A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). 15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed. 		the applicate i	cation pur: that in ord	suant to 37 C.F.R. § 1.53(f) and this, as well as the changes to 37 ler to obtain the benefit of a prior U.S. application, either the basic	C.F.R. § filing fee	1.53 and 1.78(a)(1),
[X] Check in the amount of \$690.00 . [] Charge Account No in the amount of \$ A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). 15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed.				Total Fees Enclosed	\$	690.00
[X] Check in the amount of \$690.00 . [] Charge Account No in the amount of \$ A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). 15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed.	1.1	3.6.43	ı en			
[] Charge Account No in the amount of \$ A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). 15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed.	14.	Metno	ı oı Payı	ment of rees		
A duplicate of this transmittal is attached. NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b). 15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should not be completed.		[X]	Check i	in the amount of \$690.00		
15. Authorization to Charge Additional Fees WARNING: If no fees are to be paid on filing, the following items should <u>not</u> be completed.		[]	_		_ ·	
WARNING: If no fees are to be paid on filing, the following items should <u>not</u> be completed.	NOTE:	Fees show	ıld be itemi	ized in such a manner that it is clear for which purpose the fees are paid	. 37 C.F.A	R. § 1.22(b).
	15.	Author	ization t	o Charge Additional Fees		
WARNING. Accurately count claims aspecially multiple dependent claims to avoid unexpected high charges if extr	WARNI	ING:	If no fees	are to be paid on filing, the following items should <u>not</u> be completed.		
charges are authorized.	WARNI			ly count claims, especially multiple dependent claims, to avoid unexpec zed.	ted high c	harges, if extra claim

[]		oner is hereby authorized to charge the following additional fees by this paper and the entire pendency of this application to Account No. 04-1105.
	[X]	37 C.F.R. § 1.16(a), (f) or (g) (filing fees)
	[]	37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)
NOTE:	paid or these claim. notice of fee deficie	fees for excess or multiple dependent claims not paid on filing or on later presentation must only be a cancelled by amendment prior to the expiration of the time period set for response by the PTO in any ency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, and dealing with amendments after final action.
	[X]	37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
	[X]	37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a).
	[X]	37 C.F.R. § 1.17 (application processing fees)
NOTE:	requiring a petition extension of time for required extension of time for reply requiring a perforth in § 1.17(a) w	may be submitted in an application that is an authorization to treat any concurrent or future reply, for an extension of time under this paragraph for its timely submission, as incorporating a petition for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all of time fees will be treated as a constructive petition for an extension of time in any concurrent or future exition for an extension of time under this paragraph for its timely submission. Submission of the fee set ill also be treated as a constructive petition for an extension of time in any concurrent reply requiring a usion of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).
	[]	37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))
NOTE:		ation to charge the issue fee to a deposit account has been filed before the mailing of a Notice of e fee will be automatically charged to the deposit account at the time of mailing the notice of allowance.

16. Instructions as to Overpayment

37 C.F.R. § 1.311(b)).

NOTE: "... Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status

must be filed in the application . . . prior to paying, or at the time of paying, . . issue fee." From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no

[X] Credit Account No. - 04-1105.

notification is required if the change is to another small entity.

[] Refund

		\$10	Mas. Law Feb 8, 2000 GNATURE OF PRACTITIONER
Reg. N	o. 38,22	(typ) Dil	ra Z. Lowen se or print name of practitioner) ke, Bronstein, Roberts & Cushman, LLP O Water Street
Tel. No	o.: (617)) P.O). Address
Custon	ner No.:	<u></u>	Boston, MA 02109
[X]	Incorp	poration by reference of added pages	
	applico divisio	the following item if the application in this tra- cation(s) (including an international application e onal or C-I-P application) and complete and ICATION TRANSMITTAL WHERE BENEFIT MED)	entering the U.S. stage as a continuation, attach the ADDED PAGES FOR NEW
	[X]	Plus Added Pages for New Application Tr Application(s) Claimed	ansmittal Where Benefit of Prior U.S. Number of pages added5
	[]	Plus Added Pages for Papers Referred to in Item	4 Above Number of pages added
	[]	Plus added pages deleting names of inventor(s) relonger inventor(s) of the subject matter claimed in	named on prior application(s) who is/are no in this application. Number of pages added
	[]	Plus "Assignment Cover Letter Accompanying N	New Application" Number of pages added
[]	Stater	ment Where No Further Pages Added	
		further pages form a part of this Transmittal, the the following item)	en end this Transmittal with this page and
	[]	This transmittal ends with this page.	

ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: See 37 C.F.R. § 1.78.

17. Relate Back

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(complete the following, if applicable)

[X] Amend the specification by inserting, before the first line, the following sentence:

A. 35 U.S.C. 119(e)

NOTE:

"Any nonprovisional application claiming the benefit of one or more prior filed copending provisional applications must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior provisional application, identifying it as a provisional application, and including the provisional application number (consisting of series code and serial number)." 37 C.F.R. § 1.78(a)(4).

[] "This application claims the benefit of U.S. Provisional Application(s) No(s).:

APPLICATION NO(S).:	FILING DATE		
/	#1		
	ı		

B. 35 U.S.C. 120, 121 and 365(c)

"Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application claiming the *NOTE:* benefit of one or more prior filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. . . . Cross-references to other related applications may be made when appropriate." (See § 1.14(a)). 37 $C.F.R. \S 1.78(a)(2).$

[X] "This application is a

[] continuation

	[] continuation-in-part				
	[X] divisional				
of c	opending application(s)				
[X]			ay 13, 1998, which is ed on October 24, 19		
[]	International Application designated the U.S."		filed or	1	_ now which
NOTE:	The proper reference to a prior fithe filing date of the PCT applicat	led PCT application is ion that designated th	that entered the U.S. nation	onal phase is the U.	.S. serial number and
NOTE:	(1) Where the application being transmitted adds subject matter to the International Application, then the filing can be a a continuation-in-part or (2) if it is desired to do so for other reasons then the filing can be as a continuation.				
NOTE:	The deadline for entering the na April 28, 1987 (1079 O.G. 32 to 4		S. for an international a	pplication was clar	rified in the Notice o
	"The Patent and Trademark Offi priority date if the United States he filed prior to the expiration of the Demand for International Prelimited expiration of the 19th month from communicated to the Patent and international application has not period respectively, the internation priority date respectively. These priority date respectively. These priority date application international application."	tas been designated at the 19th month from the inary Examination whom the priority date, I Trademark Office to the been communicated onal application becomeriods have been place	nd no Demand for Internation of priority date and until the ich elected the United States of the copy of the the Patent and Trade mes abandoned as to the ced in the rules as paragr	ntional Preliminary I he 32nd month from hes of America has f the international hith period respective emark Office within United States 20 o eaph (h) of § 1.494 a	Examination has been the priority date if a been filed prior to the application has been yely. If a copy of the the 20 or 30 months from the and paragraph (i) of a the the theorem the the theorem the theorem the theorem the theorem the theorem the the theorem the the theorem the the theorem the theorem the theorem the theorem the theorem the t
[]	"The nonprovisional applic		bove, namely applicate, filed	ation , clain	ns the benefit o
	U.S. Provisional Application	on(s) No(s).:			
APPLI	CATION NO(S).:			FILIN	G DATE
			<u>-</u>		***
	_/				> 7
[]	Where more than one refer	ence is made abov	e please combine all	references into	one sentence.

18. Relate Back—35 U.S.C. 119 Priority Claim for Prior Application

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(ies) as follows:

Japan	100765/1996	April 23, 1996			
Country	ry Appln. no. Filed				
The ce	rtified copy(ies) has (have)				
[X]	been filed on $9/11/97$, in prior a which was filed on $10/24/96$.	pplication <u>08/736,434</u> ,			
[] is ((are) attached.				
WARNING:	VARNING: The certified copy of the priority application that may have been communicated to the PTO by the International may not be relied on without any need to file a certified copy of the priority application in the contapplication. This is so because the certified copy of the priority application communicated by the International is placed in a folder and is not assigned a U.S. serial number unless the national stage is entered folders are disposed of if the national stage is not entered. Therefore, such certified copies may not be avaineded later in the prosecution of a continuing application. An alternative would be to physically remove the documents from the folders and transfer them to the continuing application. The resources required to transfer, retrieve the folders, make suitable record notations, transfer the certified copies, enter and make a resuch copies in the Continuing Application are substantial. Accordingly, the priority documents in foliaternational applications that have not entered the national stage may not be relied on. Notice of April 2 (1079 O.G. 32 to 46).				
19. Mainte	enance of Copendency of Prior Application				
	PTO finds it useful if a copy of the petition filed in the prior appapers constituting the filing of the continuation application. Not	• • • • • • • • • • • • • • • • • • • •			
A. []	Extension of time in prior application				
(This item	must be completed and the papers filed in the prior application has run.,				
[]	A petition, fee and response extends the term in the	pending prior application until			
	[] A copy of the petition filed in prior application	is attached.			
В. []	Conditional Petition for Extension of Time in Prior	Application			
	(complete this item, if previous item	not applicable)			
[]	A conditional petition for extension of time is being	filed in the pending prior application.			
	[] A copy of the conditional petition filed in the pr	rior application is attached.			
	(Added Pages for Application Transmittal Where Benefit	t of Prior U.S. Application(s) Claimed—page 3 of 5)			

20. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed

(complete applicable item (a), (b) and/or (c) below)

(a) [X]	This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are
[]	() the same.
{] less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:
	(type name(s) of inventor(s) to be deleted)
(b) [] T	his application discloses and claims additional disclosure by amendment and a new declaration or oath is being filed. With respect to the prior application, the inventor(s) in this application are
[] the same.
Ţ] the following additional inventor(s) have been added:
	(type name(s) of inventor(s) to be deleted)
(c) [X]	The inventorship for all the claims in this application are
	X] the same.
[not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made
	[] is submitted.
	[] will be submitted.
21. Aban	donment of Prior Application (if applicable)
[.]	Please abandon the prior application at a time while the prior application is pending, or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application.
ap the	cording to the Notice of May 13, 1983 (103, TMOG 6-7), the filing of a continuation or continuation-in-part plication is a proper response with respect to a petition for extension of time or a petition to revive and should include express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing te to the continuing application.

22. Petition for Suspension of Prosecution for the Time Necessary to File an Amendment

WARNING: "The claims of a new application may be finally rejected in the first Office action in those situations where (1) the new application is a continuing application of, or a substitute for, an earlier application, and (2) all the claims of the new application (a) are drawn to the same invention claimed in the earlier application, and (b) would have been properly finally rejected on the grounds of art of record in the next Office action if they had been entered in the earlier application." MPEP, § 706.07(b), 6th ed., rev.2.

NOTE: Where it is possible that the claims on file will give rise to a first action final for this continuation application and for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) it may be desirable to file a petition for suspension of prosecution for the time necessary.

(check the next item, if applicable)

There is provided herewith a	Petition To	o Suspend	Prosecution	for the	Time	Necessary	to Fi	ile An
Amendment (New Applica	ation Filed	Concurren	itly)					

23. Small Entity (37 CFR § 1.28(a))

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H H H H 1945

[] Applicant has established small entity status by the filing of a statement in parent application
/on
[] A copy of the statement previously filed is included.
WARNING: See 37 CFR § 1.28(a).

24. NOTIFICATION IN PARENT APPLICATION OF THIS FILING

[]	A notification of the filing of this (check one of the following)				
	[] continuation				
	[] continuation-in-part				
	[] divisional				

is being filed in the parent application, from which this application claims priority under 35 U.S.C. § 120.